## **CLAIMS**

What is claimed is:

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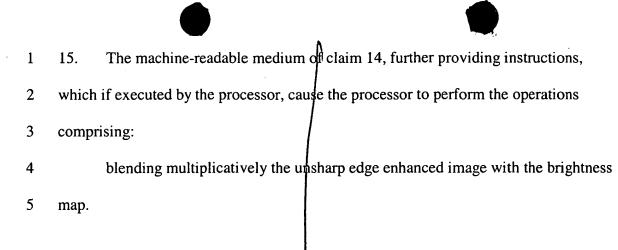
An image processing method comprising:

capturing an image; and

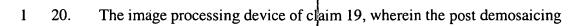
- providing edge enhancements to the captured image as part of a demosaicing
- 4 process.
- 1 2. The method of claim 1, further comprising:
- 2 performing post demosaicing processing on the captured image; and
- 3 outputting the processed image.
- 1 3. The method of claim 1, wherein providing the edge enhancements includes:
- 2 creating a brightness map of the captured image.
- 1 4. The method of claim 3, wherein providing the edge enhancements further
- 2 includes:
- detecting edges of the captured image using the brightness map;
- 4 creating a mask image form the edge detected brightness map; and
- 5 performing unsharp edge enhancement from the masked image.

- The method of claim 4, wherein providing the edge enhancements further
  includes:
  blending multiplicatively the unsharp edge enhanced image with the brightness
  map.
  An apparatus comprising:
  an image capturing device to capture an image; and
- a processor to provide edge enhancements to the captured image as part of a
- 4 demosaicing process.
- 7. The apparatus of claim 6, wherein the processor is to perform post demosaicing processing on the captured image and to output the processed image.
- 1 8. The apparatus of claim 6, wherein the processor is to create a brightness map of 2 the captured image.
- 1 9. The apparatus of claim 8, wherein the processor is to detect edges of the
- 2 captured image using the brightness map, to create a mask image form the edge detected
- 3 brightness map, and to perform unsharp edge enhancement from the masked image.
- 1 10. The apparatus of claim 9, wherein the processor is to blend multiplicatively the
- 2 unsharp edge enhanced image with the brightness map.

1	1.1	
1	11.	A machine-readable medium that provides instructions, which if executed by a
2	processor, cause the processor to perform the operations comprising:	
3		capturing an image; and
4		providing edge enhancements to the captured image as part of a demosaicing
5	process.	
1	12.	The machine-readable medium of claim 11, further providing instructions,
2	which	if executed by the processor, cause the processor to perform the operations
3	comprising:	
4		performing post demosaicing processing on the captured image; and
5		outputting the processed image.
1	13.	The machine-readable medium of claim 11, further providing instructions,
2	which	if executed by the processor cause the processor to perform the operations
3	comprising:	
4		creating a brightness map of the captured image.
1	14.	The machine-readable medium of claim 13, further providing instructions,
2	which	if executed by the processor, cause the processor to perform the operations
3	compi	rising:
4		detecting edges of the captured image using the brightness map;
5		creating a mask image form the edge detected brightness map; and
6		performing unsharp edge enhancement from the masked image.



- 1 16. An image processing device comprising:
- 2 an image capturing unit to capture an image;
- a memory device to store the captured image;
- an output unit coupled to the memory device; and
- a processor to provide edge enhancements to the captured image in the memory
- 6 device as part of a demosaicing process and to cause the enhanced image to be output is
- 7 to the output unit.
- 1 17. The image processing device of claim 16, wherein the image capturing unit
- 2 includes a charge-couple device (CCD) array, phototransistors, or photodiodes.
- 1 18. The image processing device of claim 16, wherein the output unit is a display
- 2 device.
- 1 19. The image processing device of claim 18, wherein the processor is to perform
- 2 post demosaicing processing on the captured image and to cause the image to be output
- 3 to the display device.



2 processing is a white balancing processing or a chromatic improvement processing.